

1925

Calan notes

Pp. 140 - 141

??  
..

Pp. 142, 143

+ notes p. 144

also p. 148

checked

1925

- 1 Pr. William H. Longley
- 3 Dr. David Hill Tennant
- 3 J. M. Valentine
- ~~R. V.~~ Wm Randolph Taylor
- 5 Paul Conger
- 6 Amy N Miller
- 7 Dr. Caswell Grave
- 8 Dr. Albert Mann

Dr. H. Boschma  
Dr. H. V. Wilson

Bartsch last two weeks.



1925

May 30-31 Spent night at Over Sea  
 Hotel had nice 3d floor front room  
 with Cogen for \$2.50 each for the night  
 Smiley paid for meals at Victoria  
 Res. Had with Cogen 35¢ worth  
 of ice cream each at Curry's

Fare 63.75 of which 15 = sleeper Station <sup>check 10</sup> Porter 25

Friday dinner enroute 1.50

Break. Sat.

Lunch Sat Jacksonville  
 Station Porter

Sat dinner

Sun. Break.

Car porter

Papers

.90

.50

.90

.10

1.50

.80

.35

.20

car porter

Baggage check 20

Sandwich & milk 25

Ice cream 35

Gator farm

30

car fare 30

Fare 63.75  
 including 15 pullman

June 1. Trip down was uneventful, with Dr. Mann +  
 Cogen. Dr. Mann is the best <sup>sort</sup> of a hawkeye  
 companion, and a joy to be along with

1925 <sup>121</sup><sub>5</sub>

1925 June 2 Fortuoy

Collected with Cinger and Miller on  
and in front of first rocks below  
Sat. pier west side of Snyger Head

# 25-1  
had June 1  
on label

Key. 1 large Mithras hispida ♀\*  
Miller got a lot of Cibicides  
tricolor and Calcinus tibicen.  
Some amphipods and isopods  
washed from sea weed  
A number of Mithras corphe from hole in  
\* Found under large rock which I over turned

The found of the first rocks ad in  
the eel patches off of them certainly  
seems richer in point of numbers than  
last year. The small sea urchins  
planted here have reach a good size  
as large as any that Jensen used  
in his experiments last year, which  
Dr. Snyger said indicates a year  
growth. Can it not be that it is the  
second year. The small half dollar sea  
being one yr. old.

Valentine brought in an Ocyropsis from the beach

June 3. Went out too netting with Th. Mann and Conger. Got a lot of pelagic stuff copepods, and Serris which has not represented in last ~~years~~ <sup>years</sup> collections.

#25-2

Jayla brought me a Mithrax sculptus from the fort and a Callinectes

#25-3

In afternoon went down on rocks about west side lighthouse pier and did some collecting, mostly Mithrax coryphe and sculptus. Sork through 8 Purpura shells but got nothing in ~~afternoon~~ <sup>evening</sup> after supper scattered Purpura bodies on sand in cove at north end of Saggerhead Key and saw one Hippa burrow in sand with pc



June 3 Found a Hippa, by throwing remains of Pinna ~~shell~~ bodies along beach in little cave at north end of island. Shortly afterward saw a small one scatter into sand where I happened to be looking, but not near any Pinna meat or fur as I could see. I scooped up a double hand full of sand, and there I had it; put it in a beaker and there found

June 4<sup>th</sup> Will stand quite a lot of poking in surf, to antennules, which are white just color of coral sand. Back is black speckled, so that when exposed looks like white sand and black interstices. If touched from behind rotates backward in much bothered cases making a complete revolution so that its head the other way seems almost, if not, incapable of going forward. sickle shaped dactylar terminal joints of appendages all working in rotation + alternation, quickly by animal. <sup>mostly</sup> just antennules + flagella only exposed; and after little ~~space~~ with eyes and antennular peduncle sticking out

Shifted  
position twice  
in 45 mins



June 4th.

{ 4 mins of mine  
pulled under }at 11.15 still  
couldn't find  
still at 2.00found antennule out  
after return about 4.30

For a full minute poked and, shoved  
and put glass rod on tip of antennule  
twirled it on the point did not respond  
but as soon as I took hold with forceps  
(but as long as I didn't pull didn't mind)  
and gave a pull it picked up and  
pulled entire body back and under.

Worked with animal again no matter  
what I do will not go forward. It  
certainly looks as though it is in-  
capable of forward movement.

When the antennules lie on ground look  
just like ~~broken~~ <sup>straight</sup> edge of ~~broken~~ <sup>broken</sup> shell.

June 13

Yesterday I noticed particularly  
that the animal used a sort  
of circular motion in trying to  
dig in, hadn't noticed it before.  
Maybe used this method because  
weaker. Therefore died three days ago  
would spin itself more or less like  
a wobbly top on hinder end, in  
getting under sand especially where  
thin over glass bottom.

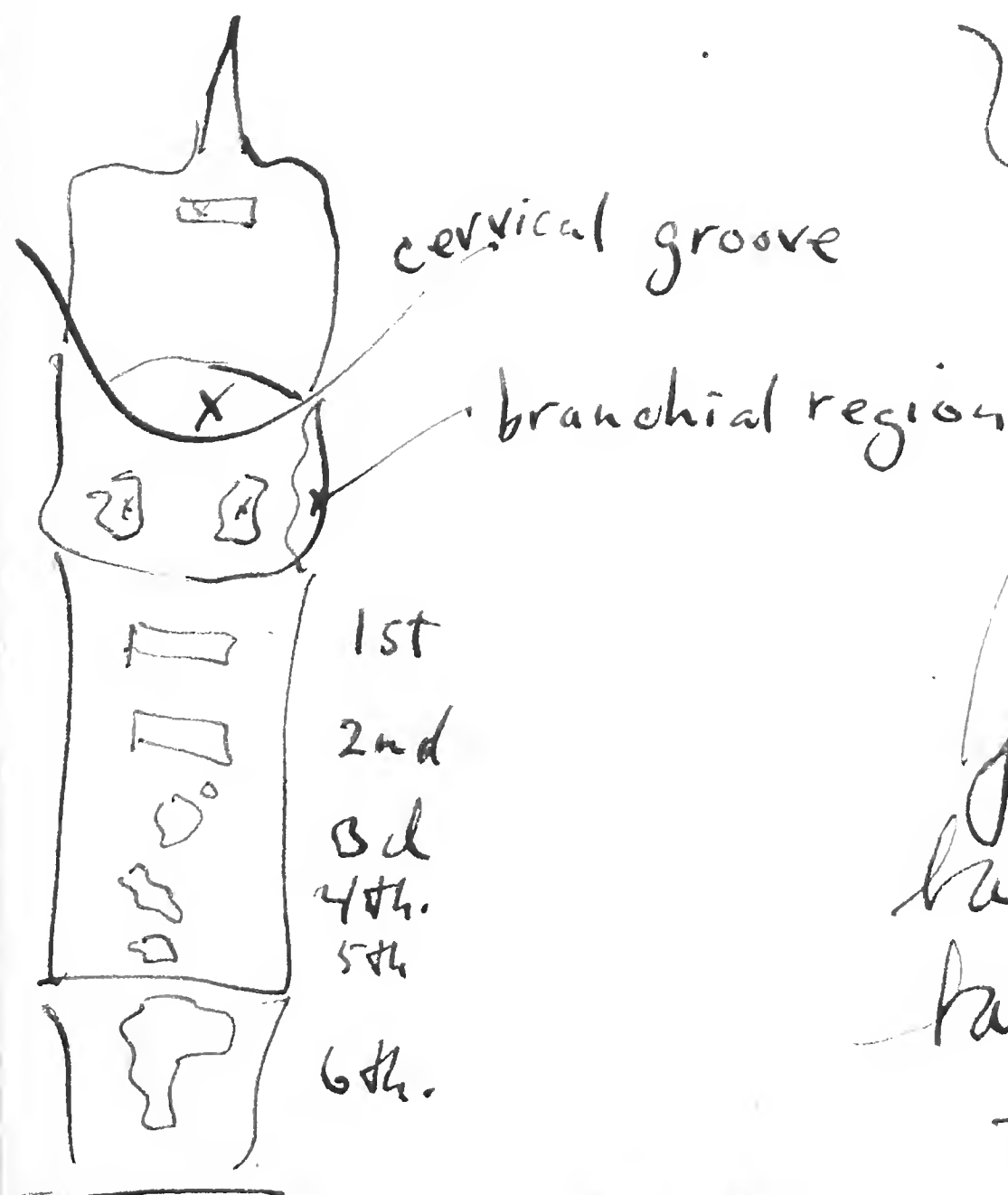
Bush Key  
 June 5  
 Sunday  
 #25-41

In lab. in morning On Bush Key  
 reef in afternoon 2-5.

Got some amphipods and isopods, washed  
 from eel grass debris brought up in  
 seine in 4-4 1/2 feet of water

On Bush Key reef got a little white  
 chromid, light ~~greenish~~ creamish-white,  
 with <sup>light</sup> salmon tipped fingers, eyes dark,  
 almost black brown, alga on back  
 light malachite green

Little crimson-brown <sup>crimson</sup> ~~red~~ Pontonid  
 on bottom of overturned rock.  
 tip of ant. and x areas white



All rest including  
 eggs except fingers tips  
 and basal part of  
 eye stalks. crimson x  
 brown carmine.

Antennae and antennular  
 flagella distally white  
 basal half with distinct  
 bands of reddish

mm mm mm

Walked to south end of  
 island & back with the sunsets.

basally suffused with the  
 red.

June 5<sup>th</sup> Helph Sh. Specially open up fish stomachs  
Fri. most of forenoon, dynamited fish  
 from just inside of reef.

Worked on them in afternoon & again  
 morning of 6<sup>th</sup> got some very interesting  
 things a *Pinnotheres depressus*,  
 & *Proceras* that I had not  
 seen before.

In all found four species new  
 to fauna

Worked at stomach contents till  
 dark & missed a most beautiful sun  
 set.

Walked around lower half of island  
 with all except Mr. Mann.



June 6<sup>th</sup>  
#25-5

Bird Key reef in afternoon #25-5  
Fish stomachs all morning

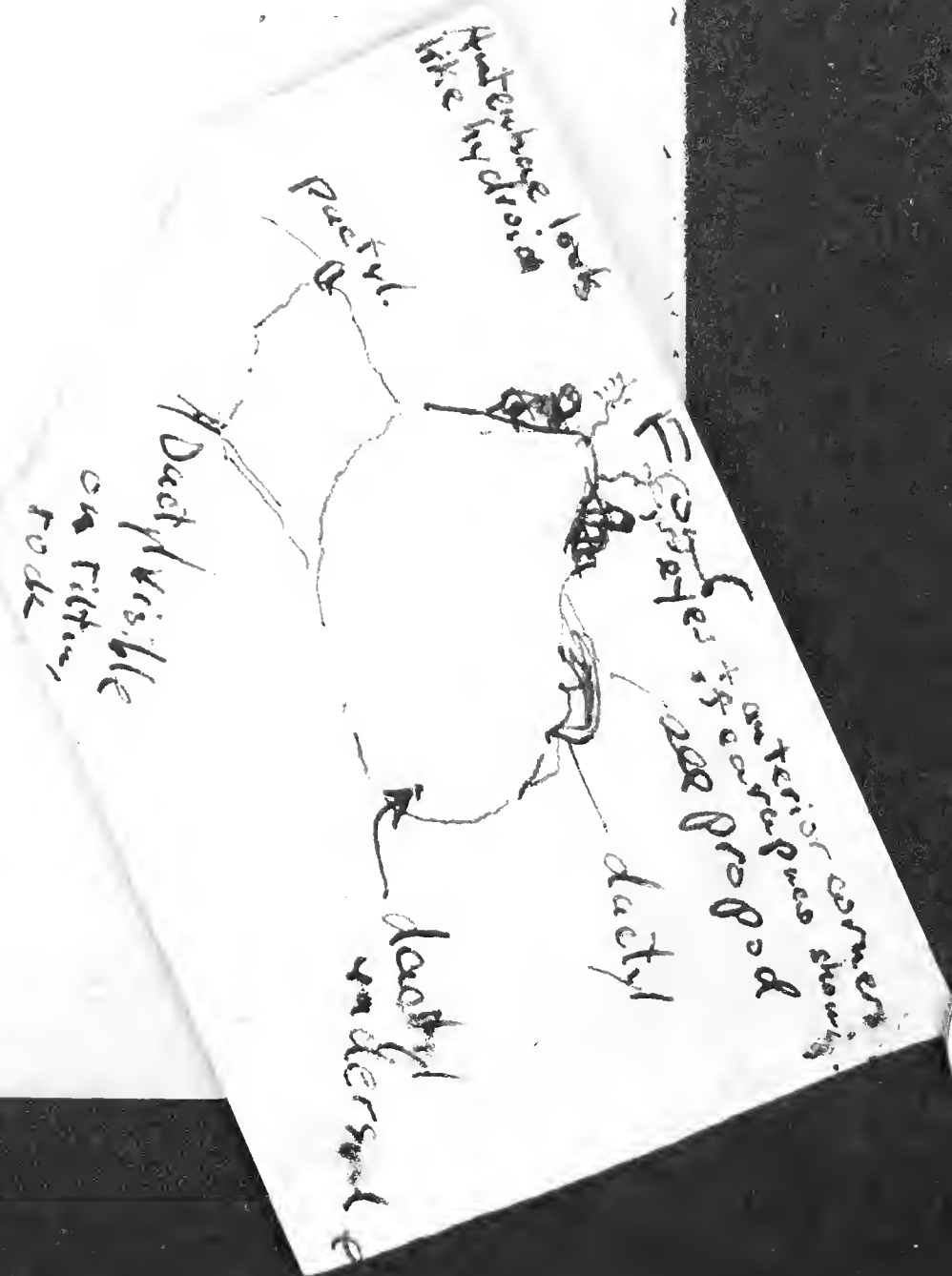
June 7 Another batch of fish stomachs  
 worked on them all day  
 went over on Bird Key reef again  
 tried a few pictures of reef  
 #25-6 + got on way back to supper

June 8 Worked on fish stomachs all day  
 took couple of Photos + sorted  
 over a bucket of algae for  
 amphipods all afternoon

Picked up rock with  
 forceps to transfer  
 from qt jar to  
 dish with sand +  
 did not let go held  
 on through dredge  
 haul  
 vessel  
 up of bottle  
 on roller  
 shaking

June 7 Another batch of fish stomachs  
 worked on them all day  
 went over on Bird Key, kept again  
 tried a few pictures of reef  
 #25-6 + got on way back to cutter

June 8 Worked on fish stomachs all day  
 took couple of Photos + sorted  
 over a bucket of algae for  
 amphipods all after noon





June 9 Put up another lot of <sup>(3d)</sup> fish stomachs  
for study. took most of forenoon  
after writing letters to Al. Clarence & Byers  
before breakfast.

~~June 10 Another day on fish slacks~~

June 10 Dredged with Pohn. Left early before  
7 a.m. passed buoy at 8 a.m. put  
at due S. of buoy east side channel.

Haul #205 Boat dredge ore at 9,30 wh at 9.45  
Boat dredge 30 fms — 31 fms. about 9 miles south  
38' fms fine sand, washed out shell frags.  
9 miles S. about 10 miles south

Haul #206 Boat dredge over 10.10; 35 fms. - 37 fms.  
Boat dredge  
35-37.  
10 mch S.

Coarse sand bot. rough with many Bryozoa. Got a Holomat-like thing I thought at first was a Cymopolia = { Ethusa }  
carried little coral rock { mascaronae }  
americana

Haul #207 Boat dredge up at 11.00 a.m. 37 fms.  
 Boat dredge Sponges galore, Bryozoa and  
 37 - about 11 m. shells and mud full of  
 sponges, kept for sorting over.

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1925

about 12 miles south

June 10 cont'd

# Haul at  
# 208

11.50 Boat dredge out 50 fms.

Boat dredge

soft grey ooze quite cold to touch much colder than quite warm water.

# Haul  
# 209

27 ft otter trawl

Try out of otter trawl when put

out depth was 50 fms at end of haul 87 fms. but net did not

touch bottom, no catch except

a marked zappa a tur cap

one curious looking Siphonophore

one curious looking Siphonophore

twice length of my thumb and about

same dia.

Seemed to be made up

as it were of a series of nested

growns with strand of reddish

through middle with little hump

of red attach, but not appearing

as conspicuous or many as

in preserved spec. which the greater

part has broken apart

& separated.



Had some trouble  
one chain and  
the one ripped  
around lower  
limbs and  
Fixed this & it fished fine.



June 10 cont'd

1925 about 13 miles  
south

131

Haul #

210

27' otter haul

Tried to get otter haul (27ft) on bottom at 87 fms/sounding but it was lett out so slow that by time it was hauled up we were in 45 fms as rounded at end of haul.

Very rough bottom. Gorgonian coral & Bryozoa, few algae. net was stripped for getting part from coral & lead lines and latter was broken. Bottom was too rough for charact of net.

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Hauled net up & got home by 7.30 for late supper.



— June 11, 1925 —

June 11 / 25 Second and last days dredging <sup>up to</sup> ~~for~~  
Hohm for 1925.

Haul #

211

Boat dredge  
10 fms.

9.20-9.30 a.m. <sup>first of three</sup> cross channel  
hauls from black, mid channel  
spur way to east channel ~~that~~  
~~red~~ red. bay.

From S1. to N. 2.

Muddy sand, algae, chiefly *Ulva*  
*Halimeda*, few living shells, ~~12~~  
2 *Parthenopids*

Haul #

212

Boat dredge  
10-8 fms.

No crustacea 2nd cross channel  
haul 10 min tow up at 9.40

Ran from 10 fms at end of previous  
haul into 8 fms.

Muddy sand of very firm consistency

Haul #

213

Boat dredge  
8-5 fms.

Third and last cross channel  
haul at end was 5 fms. no more  
hauls made because ground could  
be covered with *Ulva* if necessary  
rocky bottom to which was attached  
lots of *Gracillaria*, long slender  
algae.

Amphioxus

June 11 - 1925

Red N. 2

Haul #

214

Bomb dredge

16 fms.

5 1/2 miles

Ran forty mins south of Bong  
 Net towed from 9.55 - 10.10.  
 shelly sand, lots of foraminifera  
 about 5 1/2 miles south

Haul #

215

Bomb dredge

18 fms

about 6 miles S. #2nd day

On 18 fms. net ~~towed~~ from 11.20  
 - 11.40 a.m. Great mass of  
 algae several buckets full.

matted tangle. had quite  
 number of broken coral rocks.

This kind of bottom is what hills called  
 Red matter bank, where they fish for red snappers.

Haul #

216

Bomb dredge

20 fms.

7 miles S.

Net down at 12.00

Bottom coarse grey sand, shelly,  
 few sponges. 2 Amphioxus?

(Amphioxus 1 bag)

Haul #

217

Bomb dredge

25 fms.

8 miles

Net towed 12.35 - 12.50 = 25 fms

Great sponge haul sponges

of all kinds, shrimp & crabs

in same, and red of thimians abv.

Haul #

218

Bomb dredge

45 fms.

About 10 miles S.W. of Bong. 45 fms.

Soft grey, cold ooze + shaggy  
 transparent worm tubes.



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June 11 cont'd

Haul #

219

3ft Blake

Trawl.

45 fms

West of 218 : Depth 45 fms. under  
at beginning and end.

Soft grey cold ooze.

not much life of any sort

not much left after washing

Haul #

220

3ft Blake

trawl.

30 fms.

ker towed in 30 fms from 3.45-4.0 p.m.

got back about 6.00 p.m.

Long (red) about 5.30?

2ft grey ooze + some sponges.

when washed out considerable

shell fragments left. + some

~~live~~ live shells

June 12

In lab. forenoon writing up  
these last two days notes such as they  
are. and picking up stuff  
obtained. Afternoon back in  
fish stomachs.



1925

135

June 13  
Saturday

Sat evening Miller brought in  
a *Physalia*. Kept it in a night  
jar not fluorescent until  
when I first look at it in dark  
near 8:30 or 9 o'clock now when  
invited a started up of  
course this is but one isolated  
case plus it was no luminous  
any where or in any sense.

The blue at posterior end =  
most intense hyacinth blue  
fading out to anteroventral blue  
same in folds of crest.  
edge of crest. Short purple  
fading into shorter tentacles both  
fading into lilac  
Long tentacles dark amaranth  
purple or almost dahlia purple

June 13 Measured fish and opened stomachs and  
intestines all morning. Soaked balance of  
June 9 fishes to date have looked thru  
264. Knocked off at 3 P.M. to  
write this and some letters.

June 13

Mr. Mann's Birthday party. Made  
Candles in test tubes. Gosh made  
cake & put flag over door, also  
special punch which we ordinarily  
do not have for supper.

Chester got a conch with a  
*Petrochirus* in it & also got  
two *Porcellana sayana*'s out of  
it just I had seen larger of  
two just between dragon blood  
and coral red with whitish spots  
smaller lower brown, with spots more  
nearly clear white.

June 14  
Sunday

6:30 a.m. wrote letters last night & a  
little more this morning to Sturmy. After  
the Lohm goes will be a day of fish  
stomachs, all day till bedtime.


June 15  
Monday

All day a Fish stomachs

June 16  
Tuesday

All day on fish stomachs; off for 2-4  
Lohm arrived. Read mail  
Some of these fellows have all their second class  
mail sent down. Make a nice morning & pass time



June 16 Valentine collected erona on Bird Key  
 reef = Vinaceous-Cinnamon generally  
 run Vinaceous + Buff Pink with muddier  
 brown (obscured) bars on legs, and a  
 cheliferous  middle of frontal  
 region.  
 Shrimps, small + some bathypod crustaceans  
 taken too, 1 Microphrys #1 & E. ymagina  
 + two Gomodactylus.

affinis Yellow Schoolmaster  
 griseus Gray snapper rocks? + ~~Grass~~ <sup>Grass</sup>  
 sand bot. } Crangons. Petrolisthes. ca. 125-1 for  
 30-5 for Gray Mithrax 180(200)-13 for 6  
 Portunids (chiefly depressifrons)  
 5 - 1 for yellow snapper.  
 Euryplax 2 - none for Yellow.  
 Alpheia 1 - "  
 Pseudosquilla 304-1 " Yellow.

Yellow Grunts must feed  
 around rocks  
 ? did I mean grunts  
 here a snapper.

Yellow snapper = rocks  
 Gray snapper = sand  
 bottom



June 17 The day about 4:30 or 5 put Bitter  
in Aquarium, it burrowed right  
under there evening about 9 o'clock  
a vent out to look up aquarium.  
(3/4) *Portunus depressifrons* had its half  
eaten (bottom legs all gone + shell  
empty except at extreme hinder end.

*Calappa* supports itself on last two  
pairs of legs while eating passing food  
up with 2 + 3d pairs chelipeds merely  
holding (rests on flat of edge of substrate  
to keep from sinking in sand.  
# When walking legs are very tactile in  
function feeling + testing out ground ahead  
as crab moves, <sup>+ nervous</sup> twitching much  
antennules

June 17 Dairn went chedging 3 miles north  
of Snaggs head in 10-45 foot depth  
should get nice lot of crabs.

Mr. Smalley & I used chimney bird  
for rooks & <sup>little</sup> grass roots.  
To get food fishes feed on.  
fairly successful though no large  
nos of Petrolisthes.

June 18 Fish stomachs all day.

June 19

rest of legs whitish. Color not distinctive  
purple = violet edges not suffused  
yellow = canary yellow

reddish

little yellow flush here very faint

yellow to here or end.

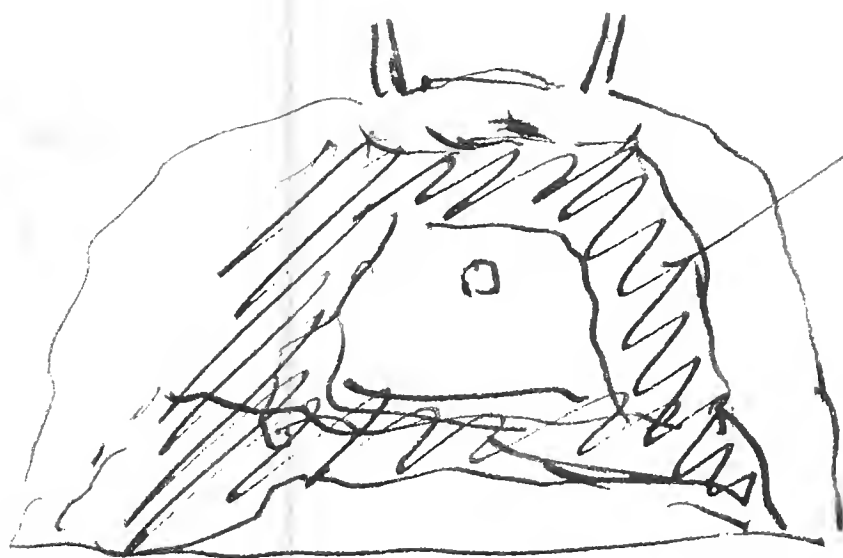
yellow dorsad to row of dots which have  
all yellow no significance except is  
this sketch, back grayish + brownish  
with some dark brown speckling

little reddish brown here behind each eye  
about maroon in color

above ~~mouth~~ like  
does band  
dredged

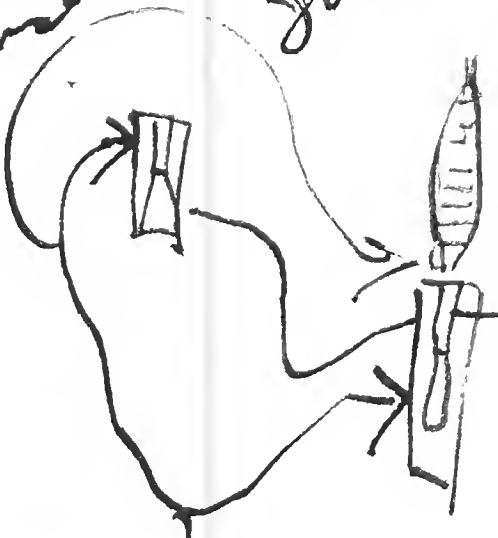
Color noted Cullappa  
by Taylor

Small Cullappa



reddish suffusion &  
markings in shape of  
speckling of liver brown  
with tinge of claret brown.

drawn this  
juv



higher central boss with touch of  
ocraceous.

upper, thick flagellum dense yellow  
to colorless distally  
dense yellow

these areas ocraceous infer to hazel.



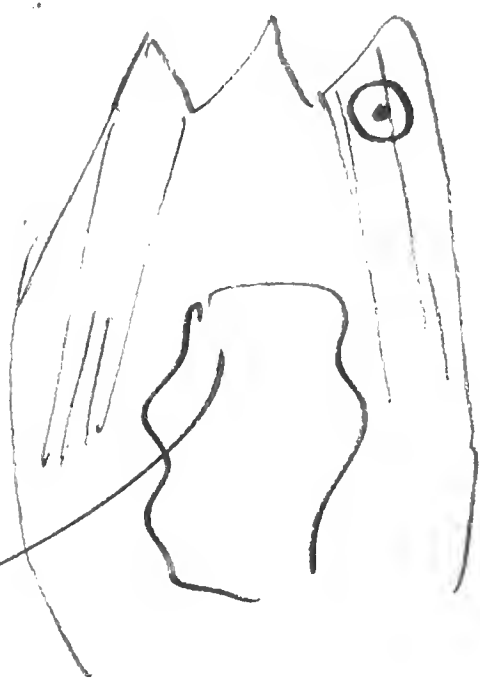
June 19  
1925

Color notes on Synalpheus brevicarpus 141

June 19 Bright Synalpheus obtained by  
flexa from sponge off ~~Bona~~ Key  
Male + female Bush Key Reef. on June 18  
found together



Large  
hinged  
male  
shell  
bristles  
which  
opacify



beam band



black  
brown



Eye

Silvery white

General color  
orange chrome

Darkest on central area of  
carapace

lighter on abdomen. especially  
laterally on chelera where it get  
saturn red like lighter red some  
way at extreme hind end wh.

distal third of telson & tail fan is  
almost colorless just before which is  
a sort of transparent ochraceous yellow

chela distally more yellow almost  
cadmium yellow marginally lower  
being orange chrome

flagella of antehumuli & antennae, colorless  
whitish, ditto.

area colored  
antennae but  
not transparent  
pleurostoma &  
dorsal end clear  
of protopod  
color  
This is all for

June 19/25 Taylor dredged down towards old  
 wreck S.W. of Sogge Head. in about 20 ft  
 water got 4 Portunids and few hermit  
 Two smaller ones were described  
 Smallest much like two larger.  
 sand grey closely mottled

lateral  
 spine  
 short



central mark scutellum surface

Paddles transparent and

most of legs. Dactyl of 1st anteh-  
 line purple like depressions near

joint similar too chelipeds white

with purple spot at articulation and tip

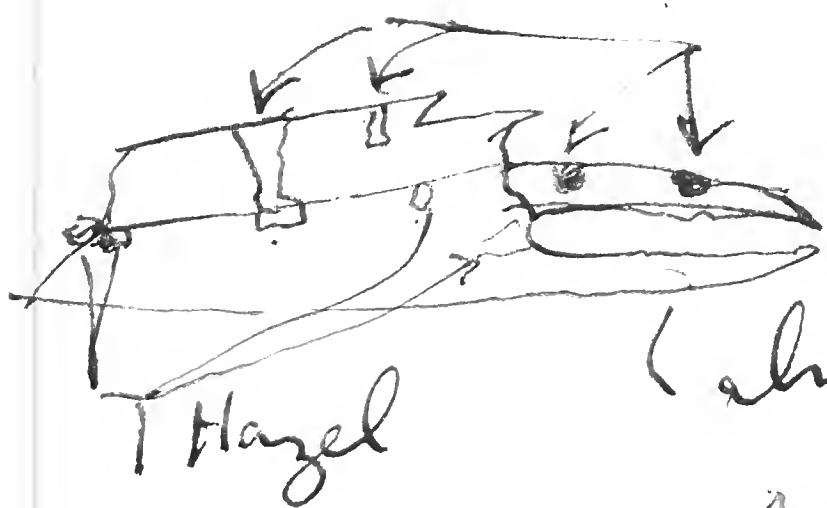
house mottled

and superior  
 outer surface

fingers light with purplish fringe of hair.

tip and lower edge and inside purple  
 spot on hand at articulation ditto like  
 in depressions

black horn = dove brown



(almost pinkish inside of hand white  
 upper fingers with black horn on  
 inside

back mottled with Rain brown

and ~~little~~ light brown mottled in some  
 places

maxilliped on upper edge at articulation of  
 palps with <sup>small</sup> circular purple spot.

Tops of joints  
 of legs with few  
 speckles of French  
 blue making them  
 purple flushed or tinged



Taylor coll.

June 19, 1985

metallic  
iridescent  
apple green  
with yellow  
points



Ants  
Tadpole yellow running  
into the red before  
purple.

white  
stripe

royal purple  
red  
white  
bright shiny



finer whitish scarer flesh  
flesh color or  
pale whitish subventral.

143

red + white  
stripes



back greenish  
grey looking  
finer + much  
closer together  
nothing  
mostly  
small  
numbers  
with some  
+ fewer larger  
markings  
of listre



shiny  
not very  
plain

scarlet vermilion x poppy  
red to which it fades out  
on lower side  
post part surface white.  
and part mostly same  
with dashes (exclamation  
points) of the red



stripes on legs  
narrow in  
middle and proximally  
+ distally, & white between  
broadens out making at little distance  
ends of joints look as though they had whitish  
bands same thing happens at middle  
of length of prothorax which seems  
almost to have white annulations around  
its middle, at these points to the  
pinkish suffusion & the white does not appear  
the pure white accentuating the apparent cross banding

markings on  
back large  
& much  
white between



June 19 Valentine, when aleyonaria collecting off first rocks below Sub. dock, ~~and star~~ <sup>in about</sup> 4-4½ feet water, just before Sunlight. Saw the Callappa gallus have concealed in sand. Presumably like crabs, crustacea they are nocturnal & so probably can be more easily found toward sundown.

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June 19 Taylor's dredged Portunids could two larger are colored like muller in addition on inside both fingers are purple tinged and there is a smaller somewhat fainter spot of purple at articulation of movable finger corresponding to outer, back seemed sort of overlaid light tuberculations are whitish and color is more checked or than appeared in smallest one second ambulatoria colored like first little fainter, 3d still fainter

\* Spider crab = Vinaceous <sup>chela</sup> Buff. + Pinkish <sup>body more</sup> buff.

X anthid chelae, surface ferruginous

Carapace grayish due to obscuring pile

piece of Dictyotys attached to ant.

June 20 Irish stomachs. Conyer gave me a meal of a tow net sample. Off reef near wreck boat of Soyghend Key, Integus June 20/25-10. H. in Bright wing got in with my stomachs. ~~was~~ <sup>was</sup> labeled.

Off reef near wreck  
West of Loggerhead Key  
Tortugas, Florida. June 20/1925  
10 a.m. Bright, windy

Sargassum  
145

June 21 Fish stomachs all day.

June 22 Fish stomachs all day + evening crabs  
in one caring for effeminate. Early  
this a.m. right after breakfast  
Got up at 4<sup>30</sup> at least was waked.  
up. by Dexter + Charley who took us  
out to make a few tow net hauls.  
made one 7 min tow from S. #4 of  
old wreck. D.W. S. Loggerhead Key  
to old wreck. Then made a  
dredge haul with new small rock  
dredge that hulls built on the lines  
of the Puget Sound one. Then  
across the shoal off extreme  
south end of island (Loggerhead)  
Then steamed up to white shoals  
Dory + made a tow net haul 20  
10 mins running north of that +  
dredged back. Then made a  
~~tow net haul~~ another dredge haul  
on eel grass just off north end  
of island. Got an eel thick cut  
a bait which had



June 23 Fish stomachs all day. <sup>Fore 4000</sup> Opened fish in  
 Tappis For Taylor in  
 Afternoon

June 24 Attempts to get up early to dredge &  
 turned but through misunderstanding  
 Charly and Dexter failed to wake me.  
 Change alcohol of jars & at 8.45  
 began on fish stomachs again.

25 Fish stomachs

26 "Packing"

27

In afternoon at 3<sup>00</sup>  
 tried our dredges + watchmen beam.  
 Hiving hood. Mills dredge worked best  
 9 ft water, 8 fms rope  $3/4$  inch at slow  
 2 miles per hour speed

Big <sup>rock pattern</sup> dredge with 8 fms 6 fms rope  
 9 ft water at half speed  
 4 miles per hour worked O.K.  
 little dredge not so good

Small rock dredge built by Mills  
 to fit his small net was too light  
 to be of much use. Too light and  
 middle cross bar tended to fly up  
 see page 148



"It aint goin to rain no more"  
 higher of the 27. Had quite a squall &  
 heavy rain. Scariest I believe I'd  
 seen of land in two seasons.

Seas which ordinarily didn't exist  
~~the~~ light rains showed up every  
 where, slight one over my left ankle  
 which a towel over the mosquito net  
 took up though just of. That comes  
 quite a leak poured down on  
 the floor.

But Valentine, it came  
 down so on his ~~bed~~ that he was  
 drenched, had to take off his  
 pajamas and dry off his body.  
 And on his bed were at least  
 two great big puddles that made  
 one lurch to look at them Miller  
 pointed his flashlight close to them  
 & all three of us had a good  
 laugh. When at about the worst  
 point Miller said "It aint goin  
 to rain no more." Valentine had

J. M. Valentine

J. M. Valentine

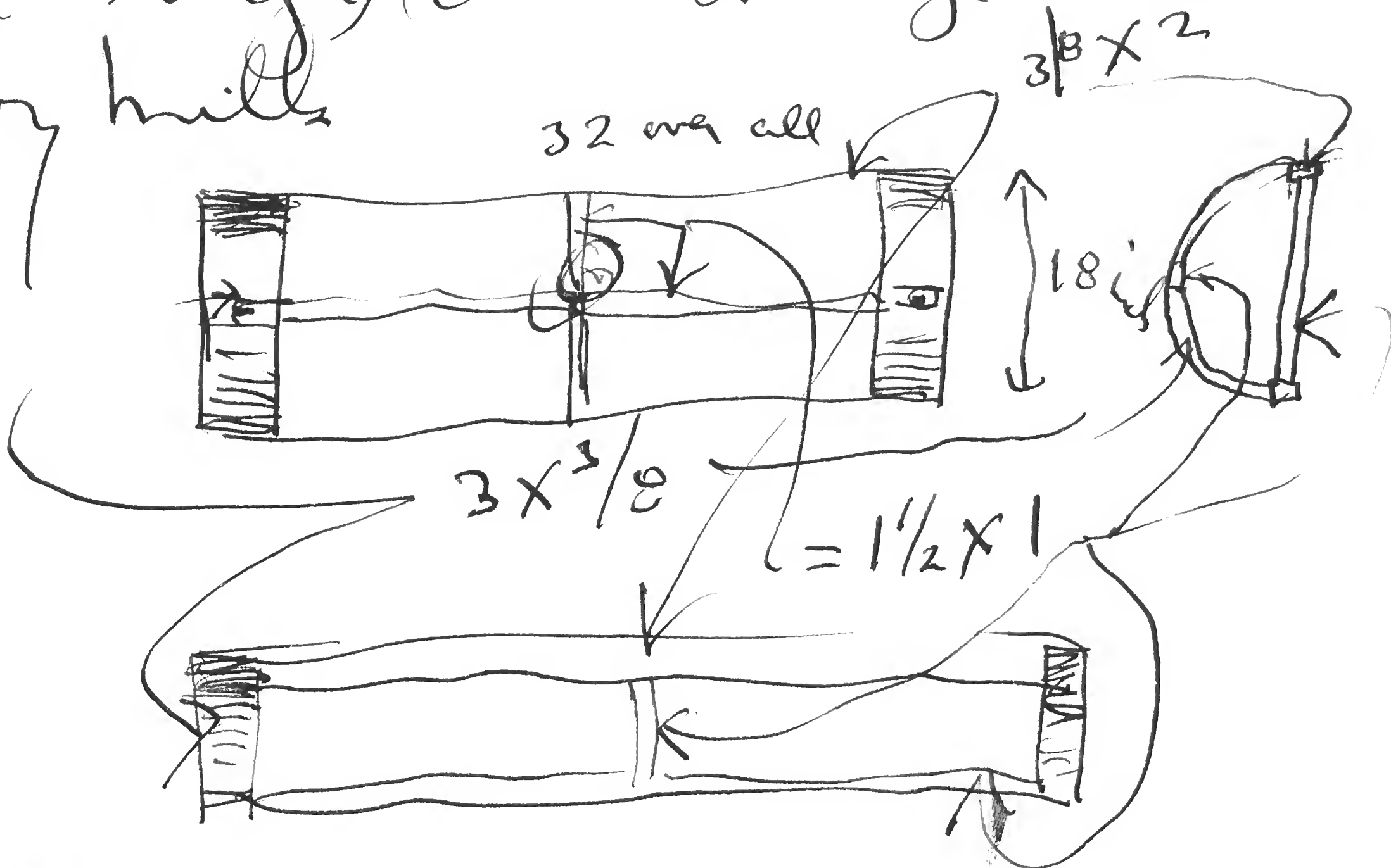
to wait till the rain was over  
 then turn his mattress & put a  
 his butt out to sleep. Night was  
 cool enough thereafter for it.

32 inch over all  
 18 in circle  
 46 —  $\frac{3}{8} \times 2$  center  
 $\frac{3}{8} \times \frac{3}{8}$   $1\frac{1}{2} \times 1$

June 27 <sup>center</sup> + tender block opening too much  
 more line + heavier weight might  
 have helped but fact remains  
 that mills dredge proved most  
 satisfactory

Big (a larger) rock dredge built  
 by mills

R.R. Tick. 48.75  
 Pullman: 15-  
Total 63.75



Supper in Key West paid for  
 130 schma 4.00 = 1.15 ea  
 $\frac{1.15}{2.30}$

Guava jelly  
 Taxi 1.20  
 Delmonicos 3.05  
 Break. 90  
 Lunch 1.50  
 Supper 1.80  
 Break. .85  
 Porter

— pc. gal. metal riveted on with  
 holes punched in to lash net & go

Home at 9:50  
 by time table